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DEPARTMENT OF AGRICULTURE

National Cooperative Dairy Herd Improvement Program



A plan for every size herd

STANDARD DHIA

OWNER SAMPLER

WEIGH-A-DAY-A-MONTH

AGRICULTURAL RESEARCH SERVICE, U. S. DEPARTMENT OF AGRICULTURE

Dairy-Herd-Improvement Letter

ARS-44-69
(Vol. 36, No. 3)

MARCH 1960

INCREASED NUMBER OF NATION'S DAIRY COWS BEING BRED ARTIFICIALLY

6,932,294 dairy cows, or 32.5 percent of the cows and heifers in the Nation 2 years of age or older kept for milk were bred artificially during 1959. This is 286,726, or 1.7 percent, more cows than were bred artificially in 1958.

Wisconsin continued to lead the States in number of cows bred artificially, with 1,251,901 cows bred in 1959. States in which more than 250,000 cows were bred artificially in 1959 are as follows:

State	Number cows bred artificially	State	Number cows bred artificially
Wisconsin	1,251,901	Iowa	351,170
New York	600,289	California	340,231
Minnesota	589,251	Michigan	313,405
Pennsylvania	531,201	Illinois	260,774
Ohio	375,283		

In fifteen States more than 40 percent of the cows were bred artificially in 1959. They are:

State	Percent	State	Percent
Maine	56.3	Idaho	47.0
Connecticut	56.1	New Hampshire	46.5
Wisconsin	52.1	Ohio	44.3
New Jersey	52.0	New York	43.0
Washington	51.8	Vermont	42.1
Massachusetts	51.7	Minnesota	41.0
Utah	51.0	Rhode Island	40.1
Pennsylvania	50.6		

On the following pages are data showing the status of the artificial breeding program for the various States.

STATUS OF ARTIFICIAL-BREEDING PROGRAM IN THE UNITED STATES, 1939-60

Year	Studs	Sires in service			Cows bred			Proved sires in service		
		Total	Proved (per-cent)	Average per stud	Herd	Total	Average per sire	Total	Production data	
									Milk (pounds)	Fat (pounds)
1939	7	33	-	4.7	646	1/	7,359	228	-	-
1940	25	138	-	5.5	2,971	1/	33,977	246	-	-
1941	35	237	-	6.8	5,997	1/	70,751	299	-	-
1942	46	412	-	9.0	12,118	1/	112,788	274	-	-
1943	59	574	23.5	9.7	23,448	1/	182,524	318	9,559	387
1944	56	657	19.6	11.7	28,627	1/	218,070	332	9,965	391
1945	67	729	20.2	10.9	43,998	1/	360,732	495	9,629	387
1946	78	900	23.2	11.5	73,293	1/	537,376	597	10,270	401
1947	84	1,453	23.1	17.3	140,571	1,184,168	815	335	10,099	405
1948	91	1,745	24.4	19.2	224,493	1,713,581	982	426	10,161	407
1949	90	1,940	26.5	21.6	316,177	2,091,175	1,078	514	10,157	412
1950	97	2,104	26.6	21.7	2/ 409,300	2,619,555	1,245	559	10,236	415
1951	94	2,187	29.0	23.3	2/ 548,300	3,509,573	1,605	634	10,267	419
1952	94	2,324	29.6	24.7	2/ 671,100	4,295,243	1,848	688	10,310	422
1953	96	2,598	36.7	27.1	2/ 755,000	4,845,222	1,865	953	10,375	429
1954	93	2,661	36.1	28.6	2/ 805,000	5,155,240	1,937	960	10,483	432
1955	79	2,450	36.0	31.0	2/ 845,900	5,413,874	2,210	883	10,575	436
1956	79	2,553	36.5	32.3	2/ 900,400	5,762,656	2,257	932	10,600	438
1957	75	2,651	40.5	35.3	2/ 946,000	6,055,982	2,284	1,074	10,626	440
1958	71	2,676	37.8	37.7	2/ 975,372	6,645,568	2,483	1,012	10,772	446
1959	64	2,460	39.1	38.4	2/ 930,059	6,932,294	2,816	963	10,918	451
1960	62	2,544	-	41.0	-	-	-	-	-	-

1/ Prior to 1946 cows were reported only on the basis of enrollment.
 2/ Estimated.

STATUS OF ARTIFICIAL-BREEDING PROGRAM
(January 1, 1960)

State	Studs	Herds ^{1/}	Cows bred in State during 1959		Milk cows in United States ^{2/}	
			Registered	Total	Total Thousands	Bred artificially Percent
			Number	Number		
Alabama ^{3/-}	0	7,756	3,708	38,003	368	10.3
Alaska-----	1	100	50	1,170	-	-
Arizona-----	1	450	1,727	14,811	55	26.9
Arkansas-----	1	4,405	2,805	26,432	328	8.1
California-----	5	18,097	29,927	340,231	983	34.6
Colorado-----	1	2,986	2,602	27,774	144	19.3
Connecticut-----	1	3,233	8,477	57,218	102	56.1
Delaware ^{3/-}	0	973	2,640	11,092	33	33.6
Florida ^{3/-}	0	4,720	6,375	86,578	243	35.6
Georgia ^{3/-}	0	7,792	4,171	38,958	307	12.7
Hawaii-----	1	175	181	4,582	-	-
Idaho ^{3/-4/-}	0	13,368	7,437	113,629	242	47.0
Illinois-----	3	46,567	35,646	260,774	736	35.4
Indiana-----	1	33,900	19,162	162,719	526	31.0
Iowa-----	2	60,547	20,649	351,170	993	35.4
Kansas-----	1	16,195	8,952	89,075	423	21.1
Kentucky-----	1	33,893	1,587	115,238	615	18.7
Louisiana-----	1	7,882	5,403	52,812	321	16.5
Maine-----	1	7,076	794	58,020	103	56.3
Maryland-----	1	11,200	9,810	78,402	248	31.6
Massachusetts ^{3/-}	0	3,857	6,547	51,681	100	51.7
Michigan-----	1	69,646	30,038	313,405	812	38.6
Minnesota-----	2	84,179	27,348	589,251	1,436	41.0
Mississippi-----	2	6,423	4,901	36,610	503	7.3
Missouri-----	1	40,462	12,982	153,756	803	19.1
Montana ^{3/-}	0	1,388	1,065	13,043	92	14.2
Nebraska-----	1	17,159	5,571	68,634	386	17.8
Nevada ^{3/-}	0	236	456	3,427	19	18.0
New Hampshire-----	1	3,411	7,019	26,946	58	46.5
New Jersey-----	2	5,064	9,592	76,972	148	52.0
New Mexico ^{3/-}	0	1,294	1,289	14,493	55	26.4
New York-----	1	58,852	87,987	600,289	1,395	43.0
North Carolina---	1	9,330	8,933	80,234	382	21.0
North Dakota ^{3/-}	0	8,564	487	23,979	341	7.0
Ohio-----	2	67,015	53,786	375,283	848	44.3
Oklahoma ^{3/-}	0	1,833	1,743	12,828	366	3.5
Oregon-----	1	15,221	8,656	85,236	221	38.6
Pennsylvania-----	7	64,781	98,239	531,201	1,449	50.6
Puerto Rico-----	1	992	100	14,901	-	-
Rhode Island ^{3/-}	0	1,017	736	6,408	16	40.1
South Carolina---	1	5,683	1,140	25,573	161	15.9
South Dakota-----	1	7,206	1,458	25,222	303	8.3
Tennessee-----	3	19,366	3,306	104,578	622	16.8
Texas-----	1	4,361	2,570	61,404	713	8.6
Utah-----	1	7,790	3,166	59,202	116	51.0
Vermont ^{3/-}	0	9,087	13,673	119,954	285	42.1
Virginia-----	1	12,186	13,994	93,833	417	22.5
Washington-----	1	24,001	11,506	151,209	292	51.8
West Virginia ^{3/-}	0	7,611	7,962	27,401	180	15.2
Wisconsin-----	8	90,065	88,170	1,251,901	2,402	52.1
Wyoming ^{3/-}	0	664	267	4,672	40	11.7
United States---	62	930,059	686,790	6,932,294	21,331	32.5

^{1/} Estimated.

^{2/} Agricultural Marketing Service estimate of number of cows and heifers 2 years old and over kept for milk.

^{3/} Buys semen from studs in other states.

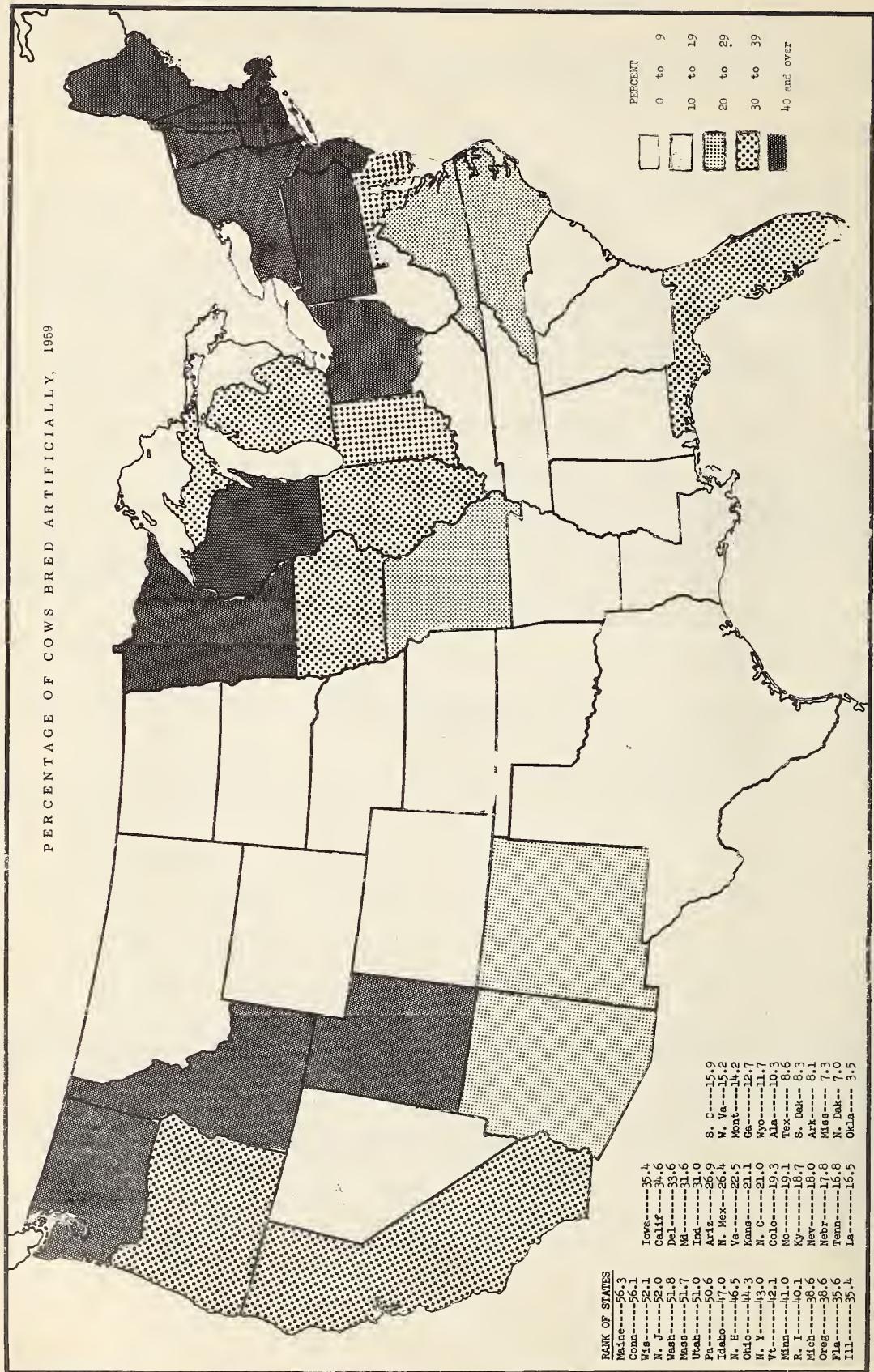
^{4/} Stud discontinued.

ARTIFICIAL-BREEDING ORGANIZATION BULL STUDS, JANUARY 1, 1960

State, Name, and Location of Studs	Number and breed of bulls used									Total cows bred 1959
	Ayrshire	Brown Swiss	Guernsey	Holstein	Jersey	Red Dane	Short horn	Beef	Total	
ALASKA Matanuska Valley Breeders Association, Palmer-----	-	-	-	5	-	4	-	-	9	1,170
ARIZONA Eads Cattle ABA, 3030 E. Thomas Road, Phoenix-----	-	-	-	3	-	-	-	-	3	306
ARKANSAS Arkansas ABA, Box 693, Fayetteville-----	-	-	6	6	6	-	3	-	21	12,164
CALIFORNIA Adohr Dairy Farms, Route 1, Box 118, Camarillo-----	-	-	14	14	-	-	-	-	28	7,413
California Dairy Breeders, Inc., P.O. Box 188, Davis-----	-	-	8	11	7	-	-	5	31	45,590
Excelsior AIS, 10531 E. Westminster Ave., Corona-----	-	-	2	12	-	-	-	-	14	17,037
Pacific Dairy Breeders Co-op., Petaluma-----	-	-	6	10	6	-	-	1	23	20,032
Roger Jessup Farms, 11638 E. Artesia Blvd., Artesia-----	-	-	7	15	5	-	-	1	28	65,637
Total-----	-	-	37	62	18	-	-	7	124	155,709
COLORADO Colorado A & M ABS, 805 S. Shields Street, Ft. Collins-----	-	1	2	4	1	-	2	8	18	10,966
CONNECTICUT New England Selective Breeding Assn., Inc., Woodbridge-----	5	2	10	14	10	-	-	-	41	125,190
HAWAII Haleakala Dairy Farm-----	-	-	-	3	-	-	-	-	3	405
IDAHO Bluffview AIS, New Plymouth (discontinued)-----	-	4	6	10	6	-	4	2	32	19,942
ILLINOIS Curtiss Candy Farms Improved Stud Service, Inc., Cary-----	6	12	28	66	16	-	8	35	171	633,998
Northern Illinois Breeding Co-op., Route 1, Hampshire-----	-	9	11	30	-	-	4	-	54	108,455
Southern Illinois Breeding Association, Breeze-----	-	3	7	14	7	-	4	8	43	70,820
Total-----	6	24	46	110	23	-	16	43	268	813,273
INDIANA John A. Newman & Sons, Route 2, Culver-----	-	-	1	7	-	-	-	-	8	1,495
IOWA Eastern Iowa ABA, Box 1751, Cedar Rapids-----	3	7	13	19	5	-	4	19	70	185,892
Iowa Breeders Co-op., Cornell & Hoffmann Rd., Des Moines 13-----	-	4	8	12	3	-	6	-	33	100,873
Total-----	3	11	21	31	8	-	10	19	103	286,765
KANSAS Kansas ABS Unit, Kansas State College, Manhattan-----	7	6	9	15	6	-	7	-	50	49,824
KENTUCKY Kentucky ABA Inc., 640 Herr Lane, Louisville 7-----	-	5	8	7	6	-	-	7	33	101,634
LOUISIANA Louisiana ABA Inc., Box 8907 La. State Univ., Baton Rouge 3-----	-	-	7	9	11	-	-	4	31	51,111
MAINE Maine Breeding Cooperative, Route 1, Augusta-----	-	1	11	14	10	-	7	1	44	53,698
MARYLAND Maryland ABC Inc., College Park-----	4	4	11	15	9	-	-	-	43	94,389
MICHIGAN Michigan ABC Inc., Box 511, Michigan State College, E. Lansing-----	4	6	16	36	12	4	6	17	101	237,962
MINNESOTA Consolidated Breeders Cooperative, Inc., Anoka-----	-	7	13	25	6	-	6	11	68	208,223
Minnesota Valley Breeders Association, New Prague-----	3	4	9	26	5	-	5	10	62	309,070
Northwest Breeders Association, Rosseau (discontinued)-----	-	2	3	7	-	-	3	2	17	13,138
Total-----	3	13	25	58	11	-	14	23	147	530,431
MISSISSIPPI Mississippi ABC, Box 354, State College-----	-	-	4	4	9	-	-	-	17	20,843
Tupelo Area AIA, Box 366, Tupelo-----	-	-	-	8	-	-	-	-	8	12,955
Total-----	-	-	4	4	17	-	-	-	25	33,798
MISSOURI M.F.A. Dairy Breeders, P. O. Box 591, Springfield-----	-	3	12	13	13	-	4	10	55	84,062

State, Name, and Location of Studs	Number and breed of bulls used									Total cows bred 1959
	Ayrshire	Brown Swiss	Guernsey	Holstein	Jersey	Red Dane	Short-horn	Beef	Total	
NEBRASKA										
Nebraska Dairy Breeders Association, Fremont-----	-	6	5	14	4	-	7	11	47	43,400
NEW HAMPSHIRE										
New Hampshire-Vermont Breeding Association, Box 350, Concord-----	1	-	8	13	13	-	-	2	37	58,678
NEW JERSEY										
New Jersey Cooperative Breeders Association, Inc., Annandale-----	-	4	10	19	3	-	-	4	40	40,417
Sussex County Cooperative Breeding Association, Sussex-----	-	-	6	18	-	-	-	-	24	13,728
Total-----	-	4	16	37	3	-	-	4	64	54,145
NEW YORK										
New York ABC, Inc., Rt. 2, Box 528, Ithaca-----	12	12	17	55	12	-	-	10	118	496,329
NORTH CAROLINA										
N. C. Institutional Breeding Program, Raleigh-----	-	-	-	11	-	-	-	-	11	1,050
OHIO										
Central Ohio Breeding Assn., 1224 Alton-Darby Rd., Columbus 4-----	5	7	21	25	13	-	2	3	76	233,765
Northern Ohio ABC, Route 4, Tiffin-----	-	-	17	23	18	-	-	17	75	195,225
Total-----	5	7	38	48	31	-	2	20	151	428,990
OREGON										
Oregon Dairy Breeders Association, Box 48, Corvallis-----	-	-	10	10	13	-	-	10	43	53,913
PENNSYLVANIA										
First Pennsylvania Artificial Breeding Cooperative, Lewisburg-----	-	-	12	14	-	-	-	9	35	54,294
Golden Genes, Inc., Dimock-----	-	-	-	2	-	-	-	-	2	500
Lehigh Valley Farmers Assn., 1000-1160 N. 7th St., Allentown-----	4	2	7	15	4	-	-	3	35	33,097
NEPA Artificial Breeding Co-op., P. O. Box 26, Tunkhannock-----	6	-	14	17	9	-	-	-	46	101,961
Southeastern Pennsylvania ABC, Box 254, Lancaster-----	5	-	10	13	3	-	-	4	35	136,142
Western Pennsylvania ABC, Box 550, Clarion-----	3	4	9	14	7	-	-	-	37	137,772
Zimmerman Dairy Farm, Lehighton-----	-	-	-	6	-	-	-	-	6	1,450
Total-----	18	6	52	81	23	-	-	16	190	465,216
PUERTO RICO										
Puerto Rico Artificial Breeding Assn., Box 61, Bayamon-----	-	8	-	15	-	-	-	-	23	14,802
SOUTH CAROLINA										
Chester Cooperative Breeding Assn., Chester-----	-	-	6	-	-	-	-	-	6	2,180
SOUTH DAKOTA										
South Dakota Cooperative Breeders Assn., P. O. Box 244, Brookings-----	1	5	3	8	-	-	3	7	27	10,263
TENNESSEE										
East Tennessee ABA, Route 14, Knoxville-----	-	-	6	7	5	-	-	-	18	37,865
Tennessee Artificial Breeding Association, Brentwood-----	-	4	6	6	10	-	-	5	31	38,965
West Tennessee Artificial Breeding Association, Yorkville-----	-	-	-	7	9	-	-	5	21	11,777
Total-----	-	4	12	20	24	-	-	10	70	88,607
TEXAS										
Texas A & M College, Dairy Science Dept., College Station-----	-	-	-	5	3	-	-	4	12	550
UTAH										
Cache Valley Breeding Association, Logan-----	3	2	5	15	5	-	2	-	32	84,533
VIRGINIA										
Virginia ABA, Inc., Route 4, Rocky Mount-----	-	-	7	12	4	-	-	7	30	62,960
WASHINGTON										
Evergreen Northwest Breeders, Inc., Box 197, Burlington-----	3	2	9	13	8	-	3	7	45	124,941
WISCONSIN										
American Breeders Service, Madison-----	5	11	31	91	23	-	9	25	195	1,316,673
Associated Breeding Service, Inc., Lena-----	-	-	4	9	-	-	-	3	16	22,888
Badger Breeders Cooperative, Shawano-----	-	7	19	27	6	-	-	3	62	373,576
Clinton Stock Farm Breeding Service, Inc., Barron-----	-	-	2	7	1	-	-	-	10	4,667
E. Central Breeders Assn. Co-op., 314 Beaver Dam St., Waupun-----	-	4	3	20	-	-	-	6	33	79,736
Piper Bros. Farms, Watertown-----	-	-	6	28	2	-	-	8	44	92,060
Southern Wisconsin Breeders Co-op., Route 2, Madison 5-----	-	-	5	33	-	-	-	-	38	113,653
Tri-State Breeders Cooperative, Westby-----	-	7	27	19	6	-	8	8	75	274,190
Total-----	5	29	97	234	38	-	17	53	473	2,277,443
UNITED STATES-----	80	165	517	1,017	348	8	107	302	2,544	6,932,294

PERCENTAGE OF COWS BRED ARTIFICIALLY, 1959



OFFICIALS IN CHARGE OF DAIRY BREEDING ORGANIZATIONS IN THE STATES

Ala----R. Sam Jones, Jr., Extension Service, School of Agr., Auburn.
Alaska---Wm. J. Sweetman, Dairy Husbandman, Alaska Exp. Station, Palmer.
Ariz----W. R. Van Sant, Ext. Service, College of Agr., Tucson.
Ark----Glen R. Pursley, Extension Service, College of Agr., Fayetteville.
Calif---C. L. Pelissier, Extension Service, College of Agr., Davis.
Colo----C. J. Hoffman, Ext. Service, Colorado A & M College, Fort Collins.
Conn---R. H. Benson, Ext. Service, College of Agr., Storrs.
Del----W. R. Hesseltine, Extension Service, University of Delaware, Newark.
Fla----C. W. Reaves, Extension Service, College of Agr., Gainesville.
Ga----W. H. McKinney, Extension Service, College of Agr., Athens.
Hawaii---H. M. Vollrath, Spec. in An. Husb., Univ. of Hawaii, P. O. Box 18,
Honolulu 10.
Idaho---G. C. Anderson, Ext. Division, College of Agr., Boise.
Ill----J. G. Cash, Extension Service, College of Agr., Urbana.
Ind----S. M. Gregory, Ext. Dairyman, Dept. of Agr. Ext., Purdue University,
Lafayette.
Iowa----Donald E. Voelker, Ext. Service, Iowa State University, Ames.
Kans---Ralph Bonewitz, Est. Division, Kansas University, Manhattan.
Ky----Edward Troutman, Ext. Service, College of Agr., Lexington 29.
La----E. W. Neasham, Agr. Ext. Service, University Station, Baton Rouge 3.
Maine---Norman R. Ness, Ext. Service, College of Agr., Orono.
Md----Edsel Gainer, Ext. Service, University of Maryland, College Park.
Mass---C. H. Parsons, Ext. Service, University of Mass., Amherst.
Mich---L. A. Johnson, Ext. Division, Mich. State University, East Lansing.
Minn---Ramer Leighton, Div. of Agr., Institute of Agriculture, St. Paul 1.
Miss---George B. Crain, Ext. Service, Miss. State University, State College.
Mo----E. T. Itschner, Agr. Ext. Service, College of Agr., Columbia.
Mont---Earl J. Peace, Ext. Service, Montana State College, Bozeman.
Nebr---C. W. Nibler, Ext. Service, College of Agr., Lincoln 1.
Nev----Joseph F. Stein, Agr. Ext., College of Agr., Reno.
N. H.---G. B. Olsson, Ext. Service, College of Agr., Durham.
N. J.---E. T. Oleskie, Ext. Service, State College of Agr., New Brunswick.
N. Mex---Borden Ells, Ext. Service, N. Mex. College of Agr., State College.
N.Y.----J. D. Burke, Ext. Service, N. Y. State College of Agr., Ithaca.
N.C.----M. E. Senger, Ext. Service, N. C. State College of Agr., State College
Station, Raleigh.
N. Dak---C. C. Olson, Agr. Ext., N. Dak. Agr. College, State College Station, Fargo.
Ohio---R. A. Porterfield, Agr. Ext., College of Agr., Columbus 10.
Oklahoma---J. E. Pendleton, Ext. Division, Okla. State College, Stillwater.
Oreg---D. E. Anderson, Ext. Service, Oregon State College, Corvallis.
Pa----H. C. Gilmore, Agr. Ext., Ccollege of Agr., University Park.
P. R.----J. G. Muriente, Ext. Service, University of Puerto Rico, Rio Piedras.
R. I.----(Vacancy) Ext. Service, Rhode Island State College, Kingston.
S. C.----C. H. Lomas, Ext. Service, Clemson Agricultural College, Clemson.
S. Dak---Ervin Kurtz, Ext. Service, S. Dak. State College of Agr., Brookings.
Tenn---V. D. Parsons, Ext. Dairyman, P. O. Box 1071, College of Agr., Knoxville.
Tex----J. W. Davis, Ext. Service, Texas A & M College, College Station.
Utah---J. J. Barnard, Ext. Service, Utah State Agr. College, Logan.
Vt----W. P. Leamy, Ext. Service, College of Agr., Burlington.
Va----V. L. Baldwin, Agr. Ext. Division, Va. Polytechnic Inst., Blacksburg.
Wash---W. R. Winters, Ext. Service, Washington State University, Pullman.
W. Va---W. L. Northern, Agr. Extension, College of Agriculture, Morgantown.
Wis---Geo. M. Werner, Ext. Dairyman, Room 209 King Hall, College of Agr., Madison 6.
Wyo----I. W. Slater, Ext. Division, College of Agr., Laramie.

